

### Abstract Of The Disclosure

5 A method and device are described for padding segments for transmitting data on a bus  
system and a bus system. The segments have a predetermined total number of bytes and the  
data being transmitted in segments, in the event of a transmission of data including fewer  
bytes than the predetermined total number of the segment, the missing bytes of the data being  
10 padded to the total number of the segment by a filling pattern of a corresponding byte  
number, distinguished in that a filling pattern, whose byte number corresponds to the total  
number of the segment, is first written into the segment and the bytes of the data are  
subsequently written into the same segment, the particular bytes of the filling pattern being  
overwritten by the bytes of the data.